

DAY 3: HACKATHON 3

“API Integration and Data Migration”

API Integration Process:

Steps:

1. API end-point: '`https://template-03-api.vercel.app/api/products`'
2. Data migration: From provided GitHub repository
3. Project ID: Provide by sanity.io
4. Dataset: Provide by sanity.io
5. Token: Generated unique token
6. Above key variables added in .env file as:
 - a. NEXT_PUBLIC_SANITY_PROJECT_ID
 - b. NEXT_PUBLIC_SANITY_DATASET
 - c. SANITY_API_TOKEN
7. Installed @sanity/client: To establish connection with sanity project.
8. Installed axios: This is used to fetch data and error handling.
9. Installed dotenv: To get data from client

API Integration and Data Migration: (snap)

```

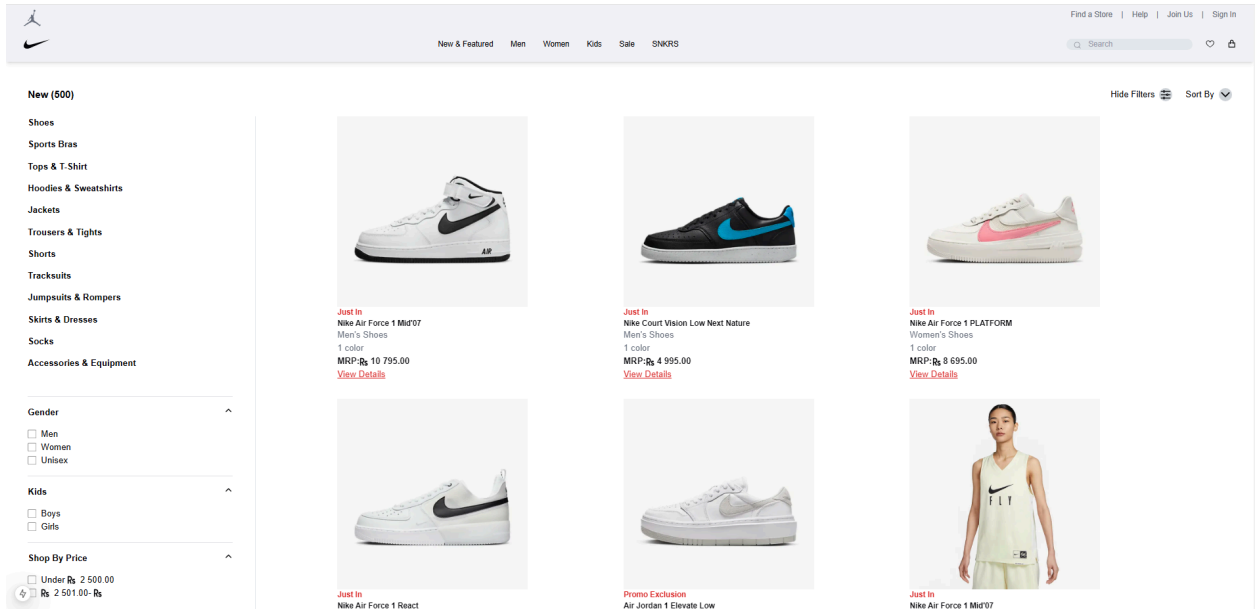
scripts > JS data-migration.mjs > ...
1  import { createClient } from '@sanity/client';
2  import axios from 'axios';
3  import dotenv from 'dotenv';
4  import { fileURLToPath } from 'url';
5  import path from 'path';
6
7  // Load environment variables from .env.local
8  const __filename = fileURLToPath(import.meta.url);
9  const __dirname = path.dirname(__filename);
10  dotenv.config({ path: path.resolve(__dirname, '../.env.local') });
11
12  // Create Sanity client
13  const client = createClient({
14    projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
15    dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
16    useCdn: false,
17    token: process.env.SANITY_API_TOKEN,
18    apiVersion: '2021-08-31'
19  });
20
21
22  async function uploadImageToSanity(imageUrl) {
23    try {
24      console.log(`Uploading image: ${imageUrl}`);
25      const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
26      const buffer = Buffer.from(response.data);
27      const asset = await client.assets.upload('image', buffer, {
28        filename: imageUrl.split('/').pop()
29      });
30      console.log(`Image uploaded successfully: ${asset._id}`);
31      return asset._id;
32    } catch (error) {
33      console.error('Failed to upload image:', imageUrl, error);
34      return null;
35    }
36  }
37
38  async function importData() {
39    try {
40      console.log('migrating data please wait...');
41
42      // API endpoint containing car data
43      const response = await axios.get('https://template-03-api.vercel.app/api/products');
44      const products = response.data.data;
45      console.log("products ==> ", products);
46

```

```
48     for (const product of products) {
49         let imageRef = null;
50         if (product.image) {
51             imageRef = await uploadImageToSanity(product.image);
52         }
53
54         const sanityProduct = {
55             _type: 'product',
56             productName: product.productName,
57             category: product.category,
58             price: product.price,
59             inventory: product.inventory,
60             colors: product.colors || [], // Optional, as per your schema
61             status: product.status,
62             description: product.description,
63             image: imageRef ? {
64                 _type: 'image',
65                 asset: {
66                     _type: 'reference',
67                     _ref: imageRef,
68                 },
69             } : undefined,
70         };
71
72         await client.create(sanityProduct);
73     }
74
75     console.log('Data migrated successfully!');
76 } catch (error) {
77     console.error('Error in migrating data ==>> ', error);
78 }
79 }
80
81 importData();
```

```
{
  productName: "Nike Air Force 1 Mid '07",
  category: "Men's Shoes",
  price: 10795,
  inventory: 20,
  colors: [ 'White' ],
  status: 'Just In',
  image: 'https://template-03-api.vercel.app/products/1.png',
  description: "The Nike Air Force 1 Mid '07 delivers timeless style with premium leather and mid-cut design. Perfect for everyday wear, it provides exceptional comfort and durability. The iconic Air-Sole cushioning adds responsive support for long-lasting performance."
},
{
  productName: 'Nike Court Vision Low Next Nature',
  category: "Men's Shoes",
  price: 4995,
  inventory: 35,
  colors: [ 'Black' ],
  status: 'Just In',
  image: 'https://template-03-api.vercel.app/products/2.png',
  description: 'The Nike Court Vision Low Next Nature combines retro basketball style with modern sustainability. Made with at least 20% recycled content, it features a sleek design, durable materials, and ultimate comfort for everyday wear.'
},
{
  productName: 'Nike Air Force 1 PLT.AF ORM',
  category: "Women's Shoes",
  price: 8695,
  inventory: 18,
  colors: [ 'White' ],
  status: 'Just In',
  image: 'https://template-03-api.vercel.app/products/3.png',
  description: "The Nike Air Force 1 PLT.AF ORM elevates the iconic AF1 silhouette with bold design updates. Featuring a platform sole and premium materials, this women's shoe redefines style and comfort in a fresh, modern way."
},
}
```



UI Interface:



Schema:

```
1  export const productSchema = {
2    name: 'product',
3    title: 'Product',
4    type: 'document',
5    fields: [
6      {
7        name: 'productName',
8        title: 'Product Name',
9        type: 'string',
10     },
11     [
12       {
13         name: 'category',
14         title: 'Category',
15         type: 'string',
16       },
17       {
18         name: 'price',
19         title: 'Price',
20         type: 'number',
21       },
22       {
23         name: 'inventory',
24         title: 'Inventory',
25         type: 'number',
26       },
27       {
28         name: 'colors',
29         title: 'Colors',
30         type: 'array',
31         of: [{ type: 'string' }],
32       },
33       {
34         name: 'status',
35         title: 'Status',
36         type: 'string',
37       },
38       {
39         name: 'image',
40         title: 'Image',
41         type: 'image', // Using Sanity's image type for image field
42         options: {
43           hotspot: true,
44         },
45       },
46       {
47         name: 'description',
48         title: 'Description',
49         type: 'text',
50       },
51     ],
52   }
```

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 Nike Waffle One SE


 Nike Metcon 8


 Nike Blazer Mid '77 Vintage


 Nike Renew Run 3

 Nike Zoom Fly 5

 Nike Pegasus 40

 Nike Air Max 270

 Nike Court Vision Low

 Nike Dri-FIT UV Hyverse

Nike Waffle One SE

Product

Nike Waffle One SE

Product Name

Nike Waffle One SE

Category

Women's Shoes

Price

7895

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